ELSEVIER

Geoderma 64 (1995) 363–364

GEODERMA

# Contents Volume 64 (1994/95)

Landscape-scale changes in indicators of soil quality due to cultivation in Saskatchewan, Canada
D.J. Pennock, D.W. Anderson and E. de Jong ..... 1
Modelling seasonal and long-term dynamics of anions in an acid forest soil, Solling, Germany
L.G. Wesselink, J. Mulder and E. Matzner ..... 21
In situ characterization of hydrologic properties of Sparta sand: relation to solute movement
G.L. Hart, B. Lowery, K. McSweeney and K.J. Fermanich ..... 41
Mineralogy of salt efflorescences in paddy field soils of Kollo, southern Niger
J. Ducloux, Y. Guero, P. Fallavier and S. Valet ..... 57
Evaluation of parent material uniformity criteria in loess-influenced soils of west-central Kentucky
A.D. Karathanasis and B.R. Macneal ..... 73
Analysing problems in describing field and laboratory measured soil hydraulic properties
G. Wessolek, R. Plagge, F.J. Leij and M.Th. van Genuchten ..... 93
n-Alkane oxidation in soil. Formation of internal monoalkenes
A. Amblès, E. Parlanti, P. Jambu, P. Mayoungou and J.-C. Jacquesy ..... 111
Topographic variation in soil water and nitrogen for two forested landforms in Minnesota, USA
A.B. Hairston and D.F. Grigal ..... 125
A method of modeling vertical fluid flow and solute transport in a GIS context
P.J. Vaughan and D.L. Corwin ..... 139
Estimation of the draining soil moisture characteristic from standard data as recorded in routine soil surveys
N.G. Danalatos, C.S. Kosmas, P.M. Driessen and N. Yassoglou ..... 155
Soil–vegetation interrelationships of mangrove swamps as revealed by multivariate analyses
I.E. Ukpong ..... 167
Computed tomography as a tool for non-destructive analysis of flow patterns in macroporous clay soils
A.W.J. Heijs, J. de Lange, J.F.Th. Schoute and J. Bouma ..... 183
A literature review and evaluation of the Hedley fractionation: Applications to the biogeochemical cycle of soil phosphorus in natural ecosystems
A.F. Cross and W.H. Schlesinger ..... 197
Measurement of chemical weathering rates using natural chloride as a tracer
P.V. Lockwood, J.W. McGarity and J.L. Charley ..... 215
Mineralogy of four sandy soils developed under heather, oak, spruce and grass in the same fluvioglacial deposit in Denmark
H.B. Madsen and P. Nørnberg ..... 233
Formation of soils with plinthite on a toposequence in Maranhão State, Brazil
L.H.C. dos Anjos, D.P. Franzmeier and D.G. Schulze ..... 257
Mineralogy and cation exchange capacity of the fine silt fraction in two soils from the southern Chaco Region (Argentina)
H.J.M. Morrás ..... 281
A chronosequence of rapid leaching of mixed podzol soil materials following sand mining
I.P. Prosser and S.J. Roseby ..... 297
Some chemical parameter relations in a population of German forest soils
J. Prenzel and H. Schulte-Bisping ..... 309

Allophane, imogolite, and gibbsite in coatings in a Costa Rican Andisol
A.G. Jongmans, P. Verburg, A. Nieuwenhuyse and F. van Oort ..... 327
Zinc adsorption–desorption on short-range ordered iron oxide as influenced by citric acid during its formation
J. Xue and P.M. Huang ..... 343

*Short Communication*
Micromorphology of authigenic celestobarite in a duripan from central Australia
L.A. Sullivan and A.J. Koppi ..... 357